

DEPARTMENTAL INPUT  
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION

To: Jack Osterholt, Director SPEE  
Department of Business Development

From: Leonardo Vargas AO 3  
Procurement Section

Department: Miami-Dade Water and Sewer Department

Contract Title: RPQ P0098 Sewer Structures Corrosion Rehabilitation

Contract No.: CICC7360-0/08

Estimated Amount: \$540,000 (\$540,000 + \$70,200.00) (Contingency and Dedicated Allowances) Account

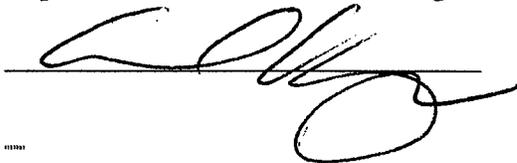
Funds:

Recommendation : No Goal

Analysis for Recommendation

Item	Description	Estimated Cost	% of Item to Base Bid	CSBE Availability
1.	This project consists of labor, coordination and all equipment necessary to complete the project	\$540,000.00	87	
2.	3% Permit Fee	\$16,200.00	3	
3.	10 % Allowance	\$54,000.00	10	
	Total	\$610,200.00		

Department Head or Authorized Agent



**DEPARTMENT INPUT**  
**CONSTRUCTION CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

Check applicable Ordinance(s):  90-143 Responsible Wage and Benefits  03-237 (formerly 03-1) Community Workforce Program

**PROJECT INFORMATION** See attachment

**Contract/Project/\*Work Order No.: P0098**

\*Reference corresponding project number when submitting a work order

**Contract/Project Title: SEWER STRUCTURES CORROSION REHABILITATION**

**Description/Scope of Work: See Attached**

**Estimated Cost: \$610,200 Funding Source: General funds**

**Location of Project (street address or beginning and ending points) i.e. 12345 NE 23<sup>rd</sup> Ct or Starts at 135 St. ends at 145 St.**  
**VARIOUS LOCATIONS**

**PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CWP)** See attachment

Engineer/Department or Agency's estimated required workforce for Project  Work Order :

Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
N/A		
N/A		
N/A		

Comments: \_\_\_\_\_

**PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE)** See attachment

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
0	\$	0%	
0	\$	0%	
0	\$	0%	

**RECOMMENDATION**

Set-Aside: Level 1  Level 2  Level 3  Trade Set-Aside  Sub-Contractor Goal  Workforce Goal  No Measure

**Basis for Recommendation: This project was bid under the MCC7040 Plan under RPO T1387, there where no bids turned in. WASD recommends we use the MCC7360 Contract to attract a wider array of qualified bidders as this is a highly specialized project.**

**Date submitted to DBD: 10/11/2012**

**Contact Person: Jose Vilaboy, Telephone: 786-552-8056**

**Telephone : 786-552-8056**

Telephone No.: \_\_\_\_\_

CONSTRUCTION COST ESTIMATE

October 3, 2012

River South Interceptor/SEWER STRUCTURE CORROSION REHAB

E.R No.47871/ PCTS 11317 File: SewerStrucRehab-ConstEstimate

Data compile: Enrique Febles

Update: Rong Zhuge

ITEMS	Unit\$	Number Units	TOTAL
1. MOBILIZATION(4%BASE COST)			\$ 20,000
<b>2. Junction Chamber SW 17th Ave/ 1st Ave</b>			
2a. Detail-A repair	44.00	397.00	17,468.00
2b. Detail-B repair	104.00	44.00	4,576.00
2c. Maintain of traffic	30.00	180.00	5,400.00
2d. Installation of weir wall	30.00	27.00	810.00
2e. 48"pipe rehab	44.00	251.00	11,044.00
2f. Special operations(0.4)			15,719.20
<b>SUB-TOTAL</b>			<b>\$ 55,017</b>
<b>3. WYE Chamber S.River Dr/NW 3rd Str</b>			
3a. Detail-A repair (special process)/ factor of 4	176.00	423.00	74,448.00
3b. Maintain of traffic	30.00	180.00	5,400.00
3c. Special operations(0.6)			47,908.80
<b>SUB-TOTAL</b>			<b>\$ 127,757</b>
<b>4. Chamber NW S.River Dr/NW 2nd Str</b>			
4a. Detail-A repair	44.00	359.00	15,796.00
4b. Detail-B repair	104.00	40.00	4,160.00
4c. Maintain of traffic	30.00	180.00	5,400.00
4d. 48"pipe rehab	44.00	1,255.00	55,220.00
4e. Special operations(0.6)			48,345.60
<b>SUB-TOTAL</b>			<b>\$ 128,922</b>
<b>5. Pre-Siphon Chamber NW S.River Dr/NW 3rd Str</b>			
5a. Detail-C repair	60.00	770.00	46,200.00
5b. Special operations(0.6)			27,720.00
<b>SUB-TOTAL</b>			<b>\$ 73,920</b>
<b>6. Post-Siphon Chamber NW N.River Dr/NW 4th Str</b>			
6a. Detail-C repair	60.00	670.00	40,200.00
6b. Special operations(1.0)			40,200.00
<b>SUB-TOTAL</b>			<b>\$ 80,400</b>
<b>7. Manhole #321A NW 7th Str/ 13th Ave</b>			
7a. Detail-A repair	44.00	270.00	11,880.00
7b. Detail-B repair	104.00	15.00	1,560.00
7c. Maintain of traffic	30.00	180.00	5,400.00
7d. Special operations(0.4)			7,536.00
<b>SUB-TOTAL</b>			<b>\$ 26,376</b>
<b>8. Manhole #321B NW 7th Str/ 13th Ave</b>			
8a. Detail-A repair	44.00	180.00	7,920.00
8b. Detail-B repair	104.00	20.00	2,080.00
8c. Flow shut down/ by-pass(tank truck 60 hours)	160.00	60.00	9,600.00
8d. Special operations(0.4)			7,840.00
<b>SUB-TOTAL</b>			<b>\$ 27,440</b>
<b>BASE BID CONSTRUCTION TOTAL</b>			<b>\$ 540,000</b>
3% permit fee			16,200
10% ALLOWANCE			54,000
<b>TOTAL BID CONSTRUCTION COST</b>			<b>\$ 610,000</b>

## SECTION 01010

### SUMMARY OF WORK

#### PART 1 GENERAL

##### 1.01 SCOPE OF WORK

- A. **Work Included:** This Section describes the project in general, and provides an overview of the extent of the work to be performed under this Contract. Detailed requirements and extent of work is stated in the applicable Specification sections and shown on the Contract Plans. The Contractor shall, except as otherwise specifically stated herein or in any applicable parts of the Contract Documents, provide and pay for all labor, materials, equipment, tools, construction equipment, and other facilities and services necessary for proper execution, testing, and completion of the work under this Contract.

##### 1.02 SPECIFICATIONS

- A. The Specifications included in these Contract Documents establish the minimum performance and quality requirements for materials and equipment together with the minimum standards for quality of workmanship and appearance. Generally, there has been no attempt to separate the Specification sections into groups for the work of separate subcontractors, or for work to be performed by the various trades. Should there be any question as to the interpretation of any particular Specification section or part of Specification section, such question should be directed to the Department prior to the submittal of a proposal for the work under this Contract.
- B. The work shown on the Plans is intended to be comprehensive and descriptive, not an exact and complete representation of the actual finished work. Installed work shall include all accessories required to provide complete and satisfactory systems as specified, even though some items may not be specifically shown on the Plans.
- C. It is the intent of the Department to obtain a complete functional, and satisfactory installation under this project, and any items of labor, equipment or materials which may be reasonably assumed as necessary to accomplish this end shall be supplied whether or not they are specifically shown on any plans which may be supplied or stated herein. The Contractor shall provide all materials for the project unless they are specifically called out in these specifications as being supplied by the Department. The Contractor shall also supply all sheeting, shoring, bracing and all other labor, material or equipment required to preclude damage to, or loss of functionality of, any existing facility or system.
- D. **Due to the nature of this project and the requirement of working in critical spaces, manholes, piping, and chambers at the opportunity provided by dry weather, delays due to rain and inability to shut down the chambers, manholes, and piping will not count against the Construction Time of this project. Conversely, the Contractor shall have no claim for additional compensation due to weather related delays.**

- E. No request for additional compensation or Contract time (except for a non-compensable time extension at the sole discretion of the Engineer, whose decision shall be final) resulting from encountering utilities or structures not shown, or differing in location or elevation from that shown, will be considered. The Contractor shall explore sufficiently ahead of the Work to allow time for any necessary adjustments without delay to the progress of the installation. Costs due to delays occasioned by encountering underground utilities or structures which could have or should have been discovered by timely exploration ahead of the Work shall rest solely with the Contractor.

1.03 REASONABLY IMPLIED PARTS OF THE WORK SHALL BE DONE THOUGH ABSENT FROM SPECIFICATIONS

- A. Any part of the work which is not mentioned in the Specifications but is shown on the Plans, or any part not shown on the Plans but described in the Specifications, or any part not shown on the Plans nor described in the Specifications, but which is necessary or normally required as a part of such work, or is necessary or required to make each installation satisfactorily and legally operable, shall be performed by the Contractor as incidental work without extra cost to the Department, as if fully described in the Specifications and shown on the Plans, and the expense thereof shall be included in the applicable unit prices or lump sum bid for the work.

1.04 DESCRIPTION OF WORK

- A. This project consists of furnishing all materials, labor and equipment necessary to refurbish seven sewer structures including a wye chamber, a pre-siphon and post-siphon chambers, manholes structures, fittings, and piping throughout Miami Dade County as follows (The Work of the Wye Chamber at South River Drive and N.W. 3<sup>rd</sup> Street shall be done first):
  - 1. The Sewer Junction Chamber at S.W. 17<sup>th</sup> Avenue and 1<sup>st</sup> Avenue remove, transport, and legally dispose of damaged liner and debris; clean, sandblast and waterblast clean; test surfaces for pH and soundness; replace any damaged steel, patch and prepare the wall surface with CPP and cure with heat gun; completely block off abandoned 48-inch pipe line by completing the top of existing weir wall; furnish and install a welded wire fabric and apply a minimum of 1-1/2 inch thick shotcrete (gunite) on all surfaces with Conshield antimicrobial additive; repair approximately 20 feet of existing 48-inch force main with 1-1/2 inch thick shotcrete (gunite) with Conshield antimicrobial additive the distance of approximately 20-feet to the location of the valve as indicated on drawings; and all appurtenant and miscellaneous items and work for a complete, functional and satisfactory installation of the project. Contractor may be required to perform work at low flow periods between 12 midnight and 5 a.m. in close coordination with the Department to divert flows at no additional cost to the Department. Contractor shall provide MOT – Maintenance of Traffic including required permits. Contractor shall obtain Public Works permit to include items specified in Paragraph "1.05 Special Instructions."
  - 2. Wye Chamber at South River Drive and N.W. 3<sup>rd</sup> Street – The Contractor shall remove the liner, waterblast and sandblast the interior surfaces of the chamber to thoroughly clean them; test surfaces for pH and soundness;

replace any damaged steel, patch, furnish and install a welded wire fabric and apply a 6-inch reinforced layer of shotcrete (gunite) with Conshield antimicrobial additive to achieve original profile; trowel surfaces smooth and cure with heat gun; Contractor shall provide MOT – Maintenance of Traffic and permits required; Contractor may be required to perform work at low flow periods between 12 midnight and 5 a.m. in close coordination with the Department to divert flows at no additional cost to the Department. Contractor shall obtain Public Works permit to include items specified in Paragraph “1.05 Special Instructions.”

3. Chamber at N.W. South River Drive and N.W. 2<sup>nd</sup> Street – This chamber was originally lined with T-Lock. The Contractor shall remove the liner, sandblast, waterblast, replace damaged steel, patch and repair the surfaces, and apply a 1-1/2 inch layer of reinforced shotcrete on all the surfaces with Conshield antimicrobial additive. Trowel smooth and heat cure with heat gun. Repair 48-inch pipe to the location of the chamber to the location of the valve along N.W. 2<sup>nd</sup> Street. Vehicular traffic in the area of manholes requires MOT. Contractor is required to provide MOT – Maintenance of Traffic. Heavy flow of sewage; Contractor may be required to perform work at low flow periods between 12 midnight and 5 a.m. in close coordination with the Department to divert flows at no additional cost to the Department. Contractor shall obtain Public Works permit to include items specified in Paragraph “1.05 Special Instructions.”
4. Pre-Siphon Chamber West of Miami River near N.W. 4<sup>th</sup> Street – This chamber was originally lined with Linabond. The Contractor shall obtain the services of a Linabond certified applicator to repair the liner. Procedures shall be as approved by Linabond and certified by the manufacturer's representative on site. MOT not required, since chamber is not located in the path of vehicular traffic. Contractor may be required to perform work at low flow periods between 12 midnight and 5 a.m. in close coordination with the Department to divert flows at no additional cost to the Department. Refer to drawings and Section 03721, “Preparation for Resurfacing of Concrete,” Section 03732, “Concrete Repair”, and Section 09885, “Repair of Linabond Lining.”
5. Post-Siphon Chamber East of Miami River at Pump Station No. 1 – This chamber was originally lined with Linabond. The Contractor shall obtain the services of a Linabond certified applicator to repair the liner. Procedures shall be as approved by Linabond and certified by the manufacturer's representative on site. No MOT is required at this site since it is within the property lines of an existing pump station and not in the path of vehicular traffic. Contractor may be required to perform work at low flow periods between 12 midnight and 5 a.m. in close coordination with the Department to divert flows at no additional cost to the Department. Refer to drawings and Section 03721, “Preparation for Resurfacing of Concrete,” Section 03732, “Concrete Repair”, and Section 09885, “Repair of Linabond Lining.”
6. Manhole 321A and 321B at N.W. 7<sup>th</sup> Street and N.W. 13<sup>th</sup> Avenue – manhole has exposed re-bars which are damaged. Contractor shall sandblast, waterblast, replace damaged re-bars, and apply 1-1/2 inches

shotcrete with antimicrobial additive on all surfaces. Trowel smooth, parge, and heat cure with heat gun. Repair and refurbish pipe interior from manhole 321B, south along N.W. 13<sup>th</sup> Avenue for an approximate distance of 5 feet as indicated on drawings; Heavy vehicular traffic in the area of manhole, Contractor is required to provide MOT – Maintenance of Traffic. Heavy flow of sewage; Contractor may be required to perform work at low flow periods between 12 midnight and 5 a.m. in close coordination with the Department to divert flows at no additional cost to the Department. Contractor shall obtain Public Works permit to include items specified in Paragraph "1.05 Special Instructions."

#### 1.05 WORKING CONDITIONS

- A. The Contractor is hereby notified that the sewer work in this contract requires confined space permits.
- B. In some structures wastewater will continue to flow through the sewer during cleaning, shotcrete, or liner repair, and the Contractor shall be prepared to perform the work during prevailing flow conditions in the sewer using working platforms as indicated below or to divert the sewage. Cleaning and repair operations shall not be performed if weather conditions are such that anticipated wastewater flows can exceed diversion pumping capacity or depths that prevent proper and safe work within sewer. Cleaning and repair operations shall be conducted only when the sewage level in the pipe is at a minimal depth.
- C. When directed by the Engineer, the Contractor shall employ means and methods which prevent blockage and minimize surcharge of wastewater in upstream manholes and tributary pipelines in coordination with Miami Dade Water & Sewer personnel. Coordinate work to be performed at low flow periods and when MDWASD can divert flows to permit safe working conditions.

#### 1.06 SPECIAL INSTRUCTIONS

- A. Attached is the whole package for a Right of Way Closure Application. Contractor shall fill out the Application and bring it to City, PW Dept. 8<sup>th</sup> floor.
- B. Contractor shall submit the Certificate of Insurance for the MOT- Maintenance of Traffic Site Plan (Certified), or you can use the FDOT standards Index 600 series showing the name of the street, intersection and North Arrow (the one that applies to your case).
- C. Certificate of Insurance must have the three coverage (General Liability, Automobile Liability and Workers Compensation) City of Miami name as an additional insured with respect to General Liability and Auto Liability, see sample attached in Appendix.
- D. Whenever performing nighttime work (regular hours are from 8:00 am to 6:00 pm) submit and obtain a Noise Waiver from the NET office of each area Contractor will be working on. Attached is the Noise Waiver Request in the Appendix.
- E. Submit paperwork 5 days in advance of the start of construction.